



# Armorite™

EXTERIOR TRIM



## Trim Installation and Care Guidelines

How to store, handle, cut, fasten, prime, seal and paint  
Armorite™ Exterior Trim for long-lasting, beautiful results



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## INTRODUCTION

Roseburg Forest Products Co.'s ("Roseburg") Installation and Finishing Instructions (the "Instructions") describe the minimum requirements for installation and finishing that must be followed to qualify for coverage under Roseburg's Armorite™ Exterior Trim 50-Year Limited Warranty.

Armorite™ Exterior Trim (the "Product") is an exterior trim product manufactured with a formaldehyde-free resin and proprietary biocidal treatment process for rot and insect resistance. Armorite™ Exterior Trim conforms to the 2015, 2012, and 2009 International Building Code ("IBC"), as well as the 2015, 2012, and 2009 International Residential Code. Weather resistance, termite resistance, decay resistance, corrosion, and structural properties have been evaluated. These properties and the Code compliance of Roseburg's Armorite™ Exterior Trim are documented in International Code Council Evaluation Service (ICC-ES) evaluation report ESR-4012.

Armorite™ Exterior Trim is manufactured with Western softwoods for superior strength with less weight. The manufacturing process ensures easy fastening, machining, and finishing. Armorite™ Exterior Trim is intended for extensive profiling for unique architectural accents. As supplied, Armorite™ Exterior Trim has a smooth sanded surface on one face, while the other is embossed with a wood grain. Armorite™ Exterior Trim is supplied with an exterior-grade primer.

Armorite™ Exterior Trim is available in actual thicknesses of 1/2", 5/8", 3/4", and 1" and actual widths of 2", 3.5", 5.5", 7.5" and 11.5". The typical Product length is 16'.

# Trim Installation and Care Guidelines

These Guidelines cover the general installation recommendations for Armorite™ Exterior Trim. Armorite™ Exterior Trim should be installed using the same good building practices used to install wood trim, in accordance with local building codes, and the installation guidelines included below. It is the responsibility of the purchaser, general contractor, installer and others who are using or installing the Product to ensure that the Product is installed properly and that all building codes, industry standards, and these Instructions are followed. Roseburg shall not be responsible or liable for the improper installation of Armorite™ Exterior Trim.

## GENERAL INFORMATION

Trim installations that are not in compliance with the Instructions are excluded from coverage under Roseburg's Armorite™ Exterior Trim 50-year Limited Warranty.

Armorite™ Exterior Trim is not designed to sit in an environment that promotes water saturation.

All exposed Armorite™ Exterior Trim must be sealed in a manner that prevents moisture intrusion and water build up.

Armorite™ Exterior Trim is not designed to be used as siding, or for structural applications such as a trellis, railing, fencing, decking, decking trim or sills.

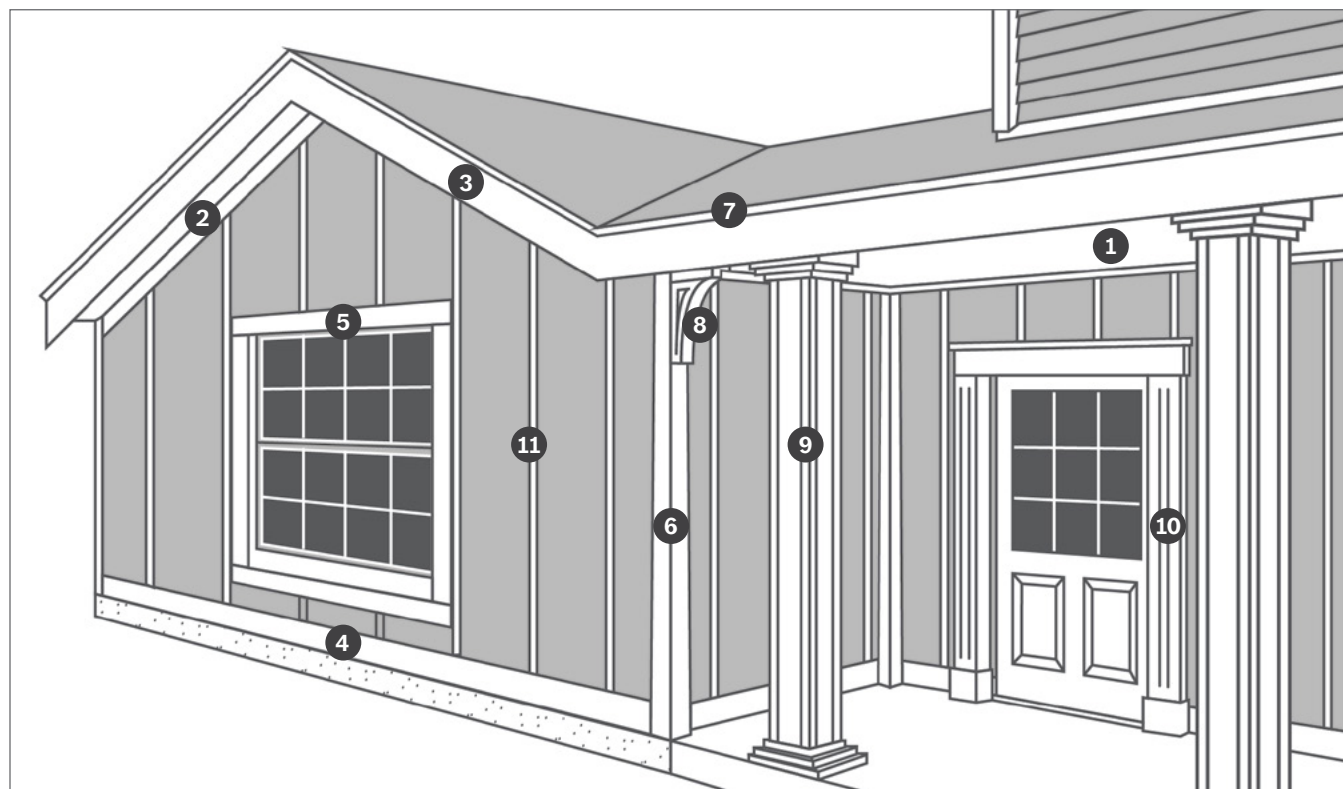
Armorite™ Exterior Trim must be installed over a solid backing.

Roseburg makes no warranties other than the limited warranties set forth in the Armorite™ Exterior Trim Limited Warranty, and expressly disclaims any warranty that the Product protects against mold, mildew, or fungus.

Armorite™ Exterior Trim may not be suitable for every application and it is the sole responsibility of the installer to be sure that Armorite™ Exterior Trim is fit for the intended use.

Roseburg recommends that all applications be reviewed by a licensed architect, engineer, and/or local building official before installation. **[See Trim Uses]**

## TRIM USES



- 1 Soffit
- 2 Frieze board
- 3 Fascia
- 4 Belly band or band board

- 5 Window trim
- 6 Corner board
- 7 Rake board or shingle mold
- 8 Architectural porch detail

- 9 Column Wrap
- 10 Fluted door casing
- 11 Batten

# Trim Installation and Care Guidelines

## STORAGE & HANDLING

- Units of Armorite™ Exterior Trim are shipped from the manufacturer with a protective covering. The protective covering should be left on the Product until it is ready to be installed.
- Armorite™ Exterior Trim should be stored on an elevated, well-drained, supportive surface.
- Since Armorite™ Exterior Trim is more flexible than natural wood, it may conform to uneven surfaces. Ensure that storage areas, as well as all framing and substructures, are level.
- Protect Armorite™ Exterior Trim from water, weather and sunlight when not in use using a roof or alternative waterproof covering.
- Take care to keep Armorite™ Exterior Trim off of the ground, dry, free of dirt and debris at jobsite. Inspect the Armorite™ Exterior Trim prior to installation.
- If Armorite™ Exterior Trim becomes dirty, clean before installation in accordance with the Armorite™ Exterior Trim Care & Maintenance Guidance.



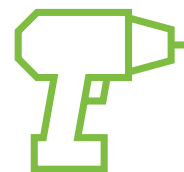
## CUTTING

- Armorite™ Exterior Trim can be cut using the same tools used to cut lumber.
- Carbide tipped blades designed to cut wood are recommended. Blades used for cutting metal are not recommended for cutting the Product.
- ALL cuts of Armorite™ Exterior Trim must be sealed by brushing or rolling an appropriate exterior primer/sealer and topcoat. Field spray applied coatings or sealants on cuts are not recommended. (See Sealing and Painting)
- Do not saw or rip Armorite™ Exterior Trim lengthwise to alter full trim width. Lengthwise cuts less than 24 inches in length must be sealed and topcoated. (See Sealing and Painting)
- Ease the edge (at a radius of 1/16" or greater) of any exposed cut to ensure that the seal coat and topcoat provide the required coverage (See Sealing and Painting)



## DRILLING AND MACHINING

- Armorite™ Exterior Trim products can be drilled using the same drill bits and tools used to drill lumber.
- Drilling Armorite™ Exterior Trim products is similar to drilling hardwood. Care should be taken to avoid frictional heat build-up.
- Pre-drilling is not required with fasteners having a shank diameter of 0.131 or less (8D Common). Pre-drilling may be required to avoid splitting the trim for larger diameter fasteners or in cold weather.
- Armorite™ Exterior Trim products can be machined using the same router bits and tools used to machine lumber. Bits must be sharp and undamaged. Carbide tipped router bits are recommended.








# Trim Installation and Care Guidelines


## FASTENING

### [See Nail Depth]

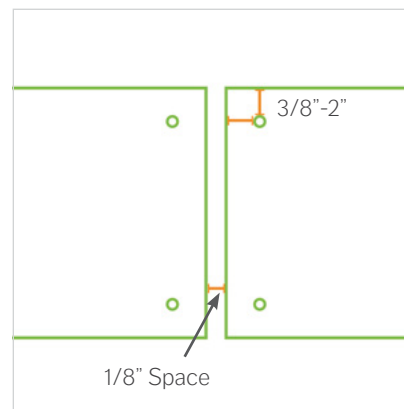
- For best results, use fasteners designed for wood trim and wood siding.
- Fasteners must be hot-dipped zinc-coated galvanized steel or other corrosion-resistant fasteners in accordance with Section 2304.10.5 of the IBC.
- Staples, small brads, and wire nails may be used unless wind load requirements state otherwise (See ICC 4012 Table 1 and 2).
- When using screws, pre-drill and countersink holes and apply proper sealing.
- Standard nail guns work well with Armorite™ Exterior Trim products. If using pneumatic tools, the air pressure should be regulated so fastener heads slightly penetrate the surface. **[See Nail Depth]**
- Armorite™ Exterior Trim products must be fastened into a solid substrate. Fastening ARMORITE TRIM material into hollow or uneven areas must be avoided.
- All fasteners should be countersunk such that the head of the fastener is flush with the surface of trim. All fasteners must hit a solid framing member.
- Cover fastener head with high-quality caulk to seal penetration.
- Fastener Length: Fasteners must be long enough to fully penetrate structural framing or wood structural panels and structural framing a minimum of 1.25 inch (31.75 mm).
- Fastener Placement: Fasteners must be installed within 2", and no closer than 3/8", of the end of each board. **[See Fastener Placement]**
- Fastener Spacing: Trim must be fastened with two fasteners at both ends, with additional fasteners spaced a maximum of 24 inches (610 mm) o.c. along the length of the board, or with two nails at both ends, with additional fasteners spaced a maximum of 16 inches (406.4 mm) o.c. along alternating edges the length of the board.
- Fastener Quantity: For trim under 7" (178 mm) wide, use a minimum of 2 rows of fasteners per width. For trim 7" (178 mm) to 12" (305 mm) wide, use a minimum of 3 rows of fasteners per width. For trim over 12" (305 mm) wide, use a minimum of 4 rows of fasteners per width. **[See Fastener Quantity]**
- Armorite™ Exterior Trim products expand and contract, like other wood-based panels, with changes in moisture content. Properly fastening Armorite™ Exterior Trim material along its entire length will minimize expansion and contraction.
- When properly fastened, allow 1/8" on each end per 16 feet of Armorite™ Exterior Trim products for expansion and contraction. Joints between pieces of ARMORITE TRIM material should be caulked with exterior-grade caulking to eliminate joint separation. **[See Fastener Placement]**
- To bond Armorite™ Exterior Trim to other substrates, use a paintable exterior grade construction adhesive with 300psi minimum bond strength and 40° F minimum application temperature.
- For best results, always use a butt joint with two fasteners on each side instead of scarf joints.

## NAIL DEPTH

CONDITION		CORRECTION
Snug		OK
Flush		OK
Visible Fiber		Paint
Counter sunk 1/16"-1/8"		Exterior putty
Counter sunk more than 1/8"		Exterior putty & add nail



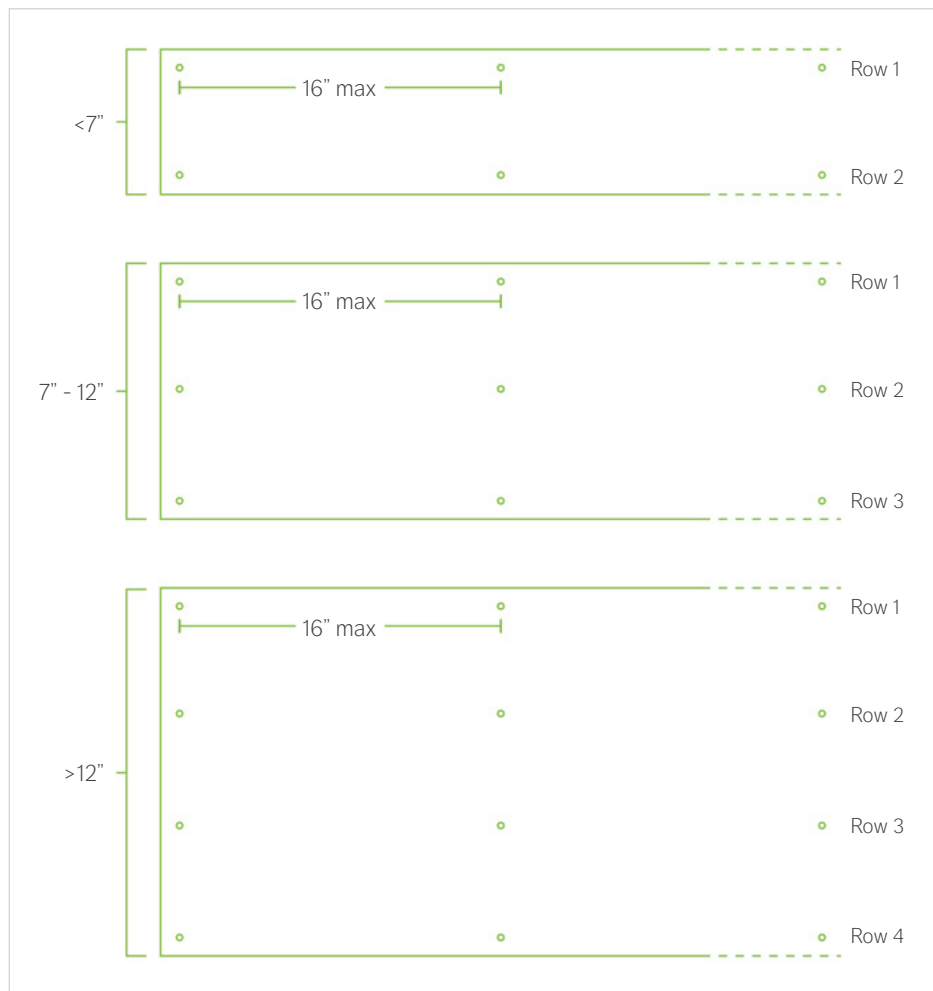
## FASTENER PLACEMENT





# Trim Installation and Care Guidelines

## FASTENER QUANTITY



## MOISTURE CONTROL

- Moisture control and moisture vapor control are critical elements of proper housing design and construction. Check your local building codes for application procedures for handling moisture and water vapor in your area.
- Follow all applicable building code specifications relating to prevention of moisture intrusion into the wall assembly. Armorite™ Exterior Trim is a wood product, and, as with all wood products, must be kept free from excessive moisture. Exposure to constant or repetitive sources of water such as sprinklers, condensation, inadequate flashing, improper sealing, or failure to follow common building practices that prevent moisture intrusion into the wall system may cause damage, and products subject to such conditions will be excluded from warranty coverage.
- As with all wood products, do not apply engineered wood trim and fascia to a structure having excessive moisture conditions such as drying concrete, plaster, or wet blown cellulose insulation.

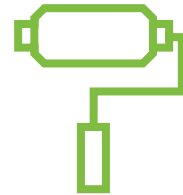


# Trim Installation and Care Guidelines

## SEALING AND PAINTING

- Seal all cut surfaces, including all drip edges or where water will hang.
- Armorite™ Exterior Trim requires exterior paint for protection. Use an exterior-quality, non-hardening, paintable sealant. Use Class 25 or higher exterior sealant meeting the ASTM C920 Standard for Specification for Elastomeric Joint Sealants. Follow the sealant manufacturer's instructions for application.
- Armorite™ Exterior Trim surfaces must be clean, dry, and void of any foreign material such as dirt, oil, grease or other contaminants that may come from normal handling, storage and/or installation prior to painting.
- Following installation of Armorite™ Exterior Trim, apply a 100% acrylic topcoat as soon as possible or within 90 days of installation. Follow the coating manufacturer's application and maintenance instructions.
- For best results use exterior-quality 100% acrylic latex paint, specially formulated for use on wood and engineered wood substrates; oil paint is acceptable. All exposed Armorite™ Exterior Trim surfaces, including the bottom edges, must be well coated.
  - DO NOT USE shake or shingle paint.
  - DO NOT USE semi-transparent or transparent stain.
  - DO NOT USE Vinyl-based resin formulas such as vinyl acetate, PVA, vinyl acetate/acrylic copolymer paint.
- Refer to your paint manufacturer representative or pre-finisher for color options and compatibility with Armorite™ Exterior Trim.
- Moisture cycling is a main reason for paint failure on wood. Since Armorite™ Exterior Trim is a wood-based trim product, proper sealing of all surfaces is required for durable performance.
- Armorite™ Exterior Trim will readily accept most exterior coatings formulated for application over wood and wood products. Topcoats used over Armorite™ Exterior Trim should be applied to achieve a dry film build of 2.5 to 3.0 mils, creating a total dry film thickness of 4.0 to 4.5 mils.
- A minimum prime coat film thickness of 1.5 mils (dry) is required on all exposed cuts, followed by an exterior 100% acrylic topcoat (see above).
- Use an exterior oil or water based primer formulated for use on wood composite products which will seal the surface and is compatible with the topcoat finish to be applied.
- Top coat must be applied after installation of fasteners and caulk application so that fastener holes are sealed and protected from moisture intrusion.
- Ease any exposed sharp edges or corners to a minimum of 1/16" radius before sealing and painting. All paints will draw away from a sharp edge or corner, regardless of what is being painted: metal, plastic, lumber, plywood and Armorite™ Exterior Trim. Because the paint is very thin on this area, any expansion and contraction resulting from ambient changes will cause the paint to crack.

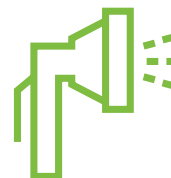
**DISCLAIMER:** The Armorite™ Exterior Trim Limited Warranty does not cover the performance of painted finishes or coating applied to the Product by the original purchaser or any third party.



# Trim Installation and Care Guidelines

## ARMORITE™ EXTERIOR TRIM CARE & MAINTENANCE GUIDANCE

- Power wash or hose off any loose dirt or debris. Make sure to test the setting for the power washer to ensure it will not damage the surface of the board.
- If the board does not come clean, Armorite™ Exterior Trim can be cleaned with mild detergent and a medium nylon bristle brush. Rinse with a hose or power washer (be sure to test the pressure so it does not harm the surface of the board). Other cleaning methods include using a soft cloth and a mixture of mild detergent.
- When using cleaners other than a mixture of mild detergent and water, it is best to test on a small area, or a scrap piece of Armorite™ Exterior Trim, to make sure it does not harm the surface or damage the product's appearance. Always read the cleaning product manufacturer's specific information before using any product on your Armorite™ Exterior Trim and follow their instructions.



### AN ANNUAL INSPECTION OF THE TRIM TO INCLUDE THE FOLLOWING:

The following annual inspection of the Product must be performed to ensure compliance with the provisions of the Armorite™ Exterior Trim Limited Warranty:

1. Condition of Caulk and Sealant: Loose and cracked caulk or sealant must be removed and replaced with a good quality, polyurethane sealant. Do not use hard-setting caulk.
2. Presence of Mildew: Mildew is a living organism (fungus) that grows on the surface of finishes giving the paint a darkened, dirty appearance. Do not paint over mildew without first cleaning the Armorite™ Exterior Trim with a mildew cleaning solution. Mildew cleaning solutions, available at local paint, lumber and hardware stores, will help retard and control this growth. The control of mildew on the surface of Armorite™ Exterior Trim is a homeowner responsibility. Roseburg makes no warranties other than the limited warranties set forth in the Armorite™ Exterior Trim Limited Warranty, and expressly disclaims any warranty that the Product protects against mold, mildew, or fungus.
3. Condition of Painted Trim: Armorite™ Exterior Trim is manufactured from wood and is primed at the factory. Following installation, Armorite™ Exterior Trim must be painted with an exterior coating designed for use on wood trim. The condition of the paint must be inspected and maintained as noted in the following table.

CONDITION OF PAINT	ACTION REQUIRED
Good condition/unbroken	Clean and remove dirt
Thin, but unbroken finish	Clean and apply two topcoats
Badly eroded, substrate showing	Clean, prime, apply two topcoats
Crack, flaking, substrate exposed	Remove loose paint film, clean, prime, and apply two topcoats



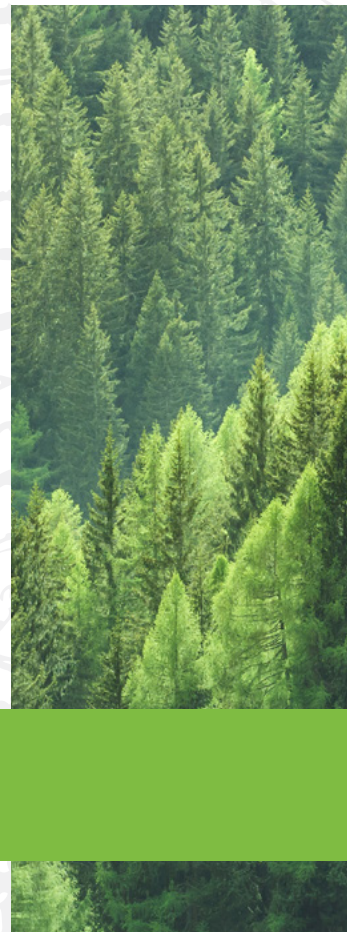
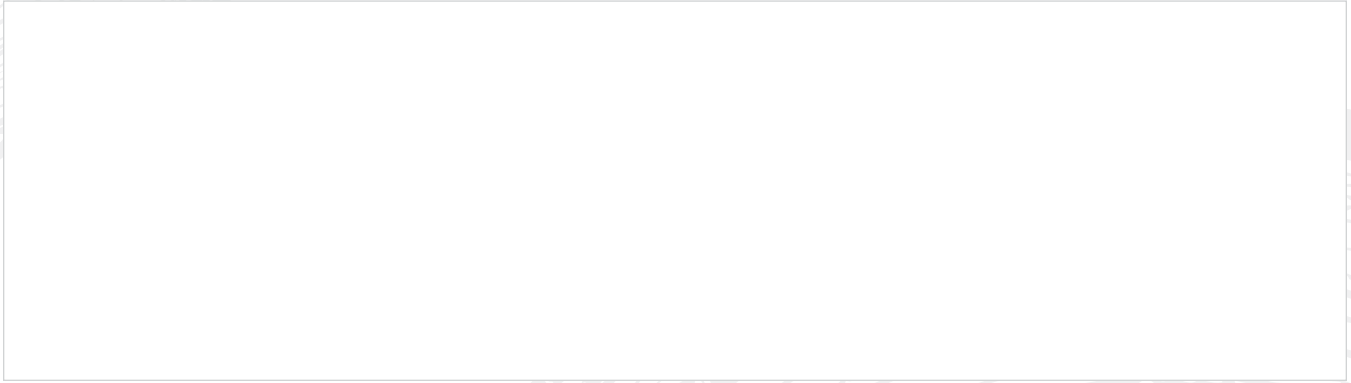
# Trim Installation and Care Guidelines

## COATING SELECTION – Maintenance Guide:

- **PRIMER** – Use an exterior oil or water based primer formulated for use on wood composite products which will seal the surface and is compatible with the topcoat finish to be applied.
- **TOPCOATS** – For best results use exterior-quality 100% acrylic latex paint, specially formulated for use on wood and engineered wood substrates; oil paint is acceptable. All exposed Armorite™ Exterior Trim surfaces, including the bottom edges, must be well coated.
- Do not use shake and shingle paints, flat oil or flat alkyd paints, vinyl acetate (PVA) vinyl acrylic, or vinyl acetate-acrylic copolymer paints, oil base transparent or opaque stains.
- **WATER DRAINAGE/DIVERSIONS** - Allowing water from roofs and sprinklers to run down the surface of the Armorite Trim can cause discoloration and accelerated erosion of the paint. Locate landscape sprinklers so that water will not hit the Armorite™ Exterior Trim.
- Due to variables involved in field application of finishes, Roseburg cannot be responsible for the performance of field applied coatings.

Appropriate action(s) must be taken to remedy any of the above noted conditions or Roseburg may deny warranty claims for any resulting damage.

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